

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 July 2004 (15.07.2004)

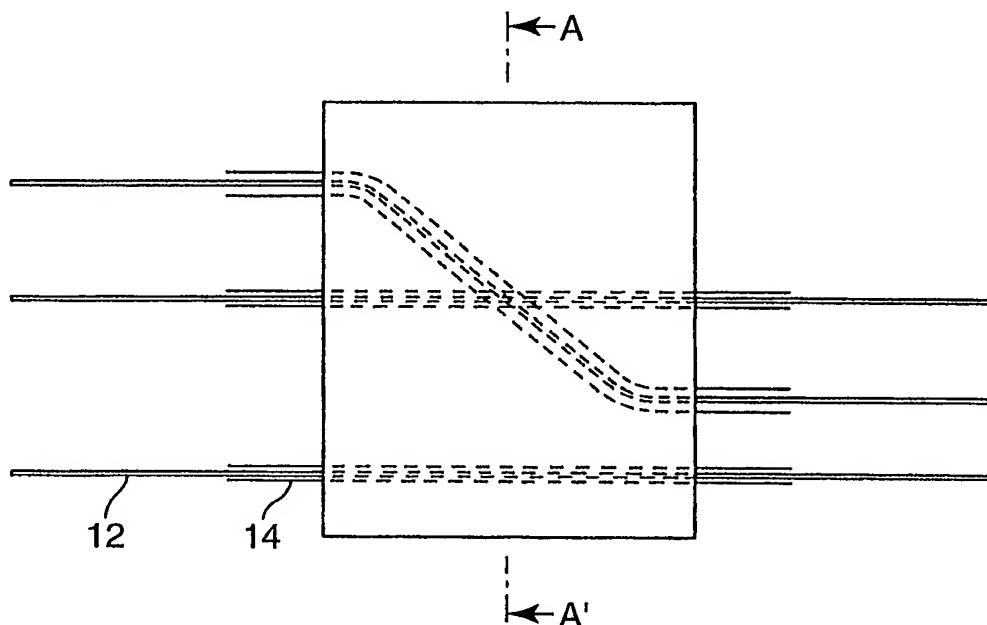
PCT

(10) International Publication Number  
**WO 2004/059352 A2**

- (51) International Patent Classification<sup>7</sup>: **G02B 6/00** Tohkaichiba-cho, Midori-ku, Yokohama-shi, Kanagawa 226-0025 (JP).
- (21) International Application Number: PCT/US2003/041013 (74) Agents: **FLORCZAK, Yen Tong**, et al.; Office of Intellectual Property Counsel, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).
- (22) International Filing Date: 18 December 2003 (18.12.2003) (81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 2002-375114 25 December 2002 (25.12.2002) JP (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **3M INNOVATIVE PROPERTIES COMPANY** [US/US]; 3M Center, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **KUWAHARA, Kenji** [JP/JP]; 3102-2-203 Tokiwa-machi, Machida-shi, Tokyo 194-0213 (JP). **MIYA, Takuro** [JP/JP]; 903-8,

[Continued on next page]

(54) Title: OPTICAL INTERCONNECTION SHEET



(57) Abstract: The present invention is directed to improving the yield in fiber terminating processing, and to preventing the occurrence of transmission loss due to stress concentration at an optical fiber bend or due to variations in ambient temperature. In one exemplary embodiment, a channel is sandwiched between adhesive layers and an optical fiber is passed through the channel.



**Published:**

— without international search report and to be republished  
upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*